

Eric D. Hagedorn

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Work Experience:

Senior Reliability Engineer - Dow Corning Corporation	2012-Present	Carrollton, KY
<ul style="list-style-type: none">Perform Root Cause Investigations on equipment failures, developing and implementing corrective actionsMaintain and update a Bad Actor list to identify and address recurring issuesLead Risk Assessment studies for atypical activities; considerations for safety, environment, business impactProcure process equipment, piping and components, instrumentation, and technologies. This includes vendor qualification, shop visits, final testing, and final inspectionsContinually creating, modifying, and updating engineering standards and technical documents as a member of the global Material of Construction Engineering Expertise TeamTechnical contributor for capital projects (planning and execution)Develop and maintain Preventative Maintenance (PM) strategies through data gathering, tracking, and analysisLead improvement projects to improve safety, reliability, sustainability, and production efficiency. Collaborate with management, operators, trades, and process experts to identify and prioritize projectsManage critical spares, considering maintenance history, life cycle cost, downtime risk, costsMentor and manage the reliability group intern; including project development, technical help, and performance evaluationOther duties include Process Change Management, Shutdown/Turnaround Planning, Engineering Information Documentation, Coupon Testing, Technology Trials, Safety MeetingsEquipment Experience: Pressure vessels, heat exchangers, reactors, columns, column internals, valves, pumps, piping systems, piping components, process instrumentation, gasketing, and custom componentsMaterials Knowledge: Tantalum, plastics & fluoropolymers (PTFE/PFA/PVDF/etc), stainless steel, graphite, carbon fiber, duplex stainless, nickel alloys, carbon steel, zirconium, fiberglass (FRP), dual-laminate, acid-resistant brick lining systems		
Manufacturing Engineer Intern - Northern Star Industries: BOSS Snowplow	2010	Iron Mountain, MI
<ul style="list-style-type: none">Standardized work, reduced costs, and improved safety while optimizing manufacturing cell workflows through generating Job Method Sheets and Job Hazard Analysis to outline work tasks and associated risksResearched new tools and tooling to improve safety, ergonomics, and productivityWorked on a team devising a transportation system to increase safety, speed, and ease of moving finished goodsParticipated in multiple lean manufacturing <i>kaizen</i> events focused on improving productivity and safety		
Handyman - Mr. General Repair, LLC	1999-2012	Gaylord, MI
<ul style="list-style-type: none">Interior remodeling through finish & rough carpentry, painting, drywall, kitchen & bath, flooring, and appliance installationExterior work including roofing, painting, siding, landscaping, and snow removal		
Popcorn Vendor Extraordinaire - Jumpin' Kernels Kettle Corn, LLC	2004-2012	Gaylord, MI
<ul style="list-style-type: none">Family-owned business, making and selling kettle corn with classic custom equipment		

Education:

Michigan Technological University	2007-2011	Houghton, MI
<ul style="list-style-type: none">Bachelor of Science - Mechanical Engineering 3.8 GPA (<i>magna cum laude</i>)		

Skills and Attributes

- SixSigma Greenbelt (DMAIC). Trained by ABS Consulting in Root Cause Investigation. Completed ASM International's 'Corrosion' Course. Member of Materials Technology Institute (MTI). Situational Leadership. MBTI Profile = ISFJ
- Software:** MS Office, SAP R/3, PI System, UGNX, Crystal Ball (Monte Carlo), Minitab, MATLAB, Adobe Acrobat
- Volunteered on many disaster relief trips. Enjoy exercise, family time, playing sports, woodworking, and wrenching.